

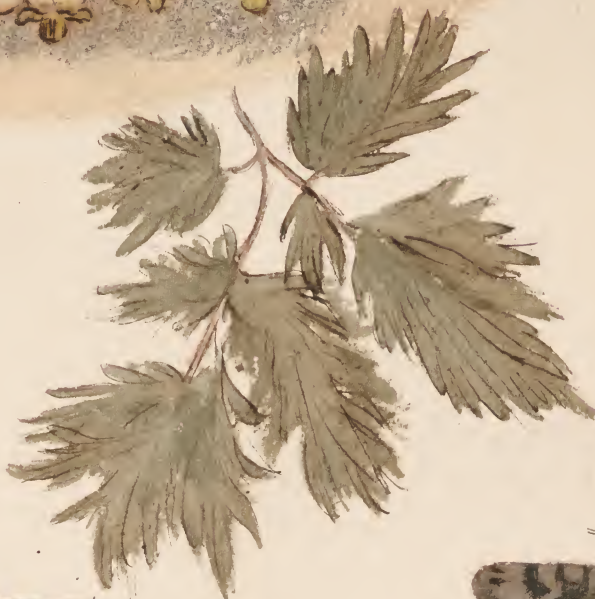
Sketch book of W. A. Johnson (1816-80), given by his son, Dr.
A. J. Johnson to Harvey Cushing & by him to the Oak Library. W. A. J.
24 leaves of colored sketches 1 May, 1865 - 19 Feb., 1869.

Woston May 1/65

Dicentra
(*Dietrichman*)
brachy.



Pistillum
may be one half-
larger.



April, 1865



In the wood on
Chapin creek.
In piece spring on
side no. 197.

9/5/65



In the very open fields,
meadows, flies 15 or 20 ft
higher again. Not much
wound. Not a true fly.
legs. Antenna as it were
cut blunt off.

Drontia scitula



Acer saccharinum
Sugar Maple
May 16: 1865
Woston

Wester
Augt 10: 1864



Hydraria micatans

Aug^t 12:



+



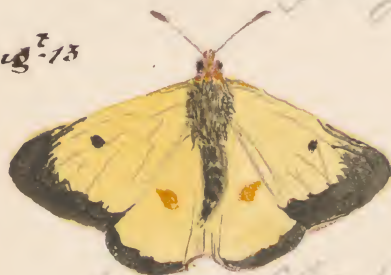
Agrotis jacobigena



Agrotis tritace?



Aug^t 13



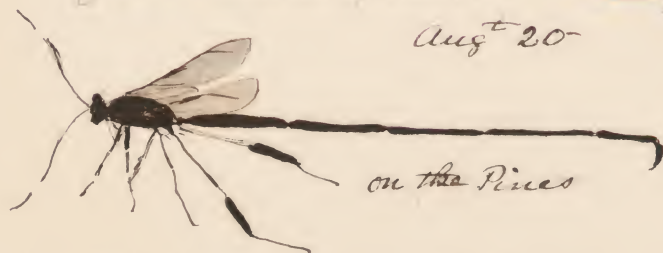
Chlorophylodite



♀



Aug^t 20



on the Pines



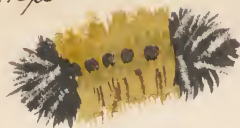
front legs yellowish white.



+

Very numerous, have a kind of spot & difficult to represent intended for the same as the other ♀.

Weston,
 Aug^t 30: 1864
 on the Hops



*Daucis
 Archipicus.*



Clytus flexuosus
 Sep^r 20: 1864.



on the Golden Rod.
Lycania phlox.



on apple
 Coloured as the bark
 of the apple



Phasma

Aug^r 22: 1864

Legs too red
should be
yellow.
probably a male



light brown with fine golden spot.
on all the wings (very long legs)



Arctia virgo?
or *Sandwich*

Hamis 345



V_A B

A the tail. B. head. magni.



a small brown worm,
when extended becomes long, com-
mon in pools of still water. It rolls
itself at times like a little roll of
waste thread. 2 in a saucer, roll up
into a close ball. Snip^d off an 1/8 of
an inch of the head & tail, 24 hours
afterwards the worm seemed to be feed-
ing like the other, but they did not
coil up together, stayed separate &
the cut one is coiled much closer than
the other.



rather too large
it spreads 3 1/2 inches.



Katy did.
Aug^r 23.

Wesley, 4/4/65.

Very delicate shades of brown
always difficult to imitate.
Line of life. Left foot too large.
Canadian Robin.

Rearus
of 80
mag. with
1 inch obj.



Weston 15/4/65.



"*Acacia rubra*"
"Red or sumac Maple"
19/4/65.

its earliest stage

black
gold dots



Calosoma
calidum

April 27.
1865.



Deep
blue black
found
in old tobacco
leaves -

Meloe angusticollis



Black & copper
Copper underneath.
Elater.

Chalcophora
argentea

Weston 20/3/65.
Grasshird.



Parasite of above. mag. with 1 inch
objective.



Parasite vacuum
of the Tom-tit or Chick-a-dee

a species of
Liotheum See
Macro. Die pg 397. Edition 186.



Cock of the woods. —
— fig. of life 1844

This wood pecker
has the power of protruding
its tongue 3 inches beyond
the extremity of the beak, and on
the end of the tongue is a horny
substance hooked or barbed
effectually to hold catkins, &c.
to what use.



Norton Chelifer (Canceroides?)

Acasi, caught on an
Elator occulatus, Aug 1: 1865

With 1 in objective &
camera lucida.



With one inch objective
& tinted glass, reversing the object.



Muscles & Hooklet
of leg & foot.

They run very fast & hold on under the
edges of the Elytra, strong teeth, large claws,
double hooklets on the feet & feet dark
red brown colour.



form of
a sort of Proleg



Inst. size.



Proleg?

with $\frac{1}{4}$ inch

18/3/05.

a podura or springtail.
in the Humber during a
freshet. it has a curious
sort of proleg. Magnified
with an inch objective.

see notes page 50.

Elytron (marked & shaped)
all over

Martens of *Elytron*
Mag. 2 with 1/4 inch.

No 1.



Nat size



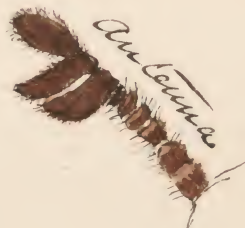
Drum fork



Mouth



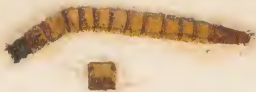
Drum fork



Antenna

Weston 30/3/65.
Magnified with thick obj.
except No 1.
See notes page 35.

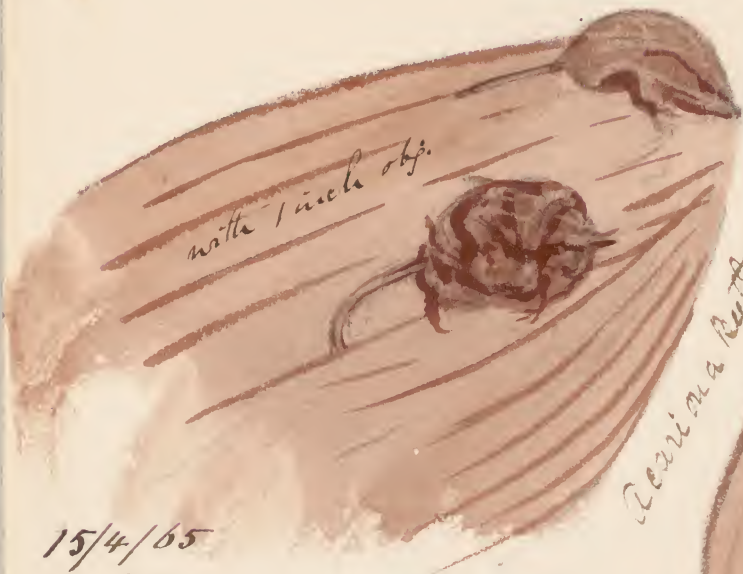
Weston 12/4/65.



out of maple. all
active borer with very
cylindrical body 12
compartments & 2
very strong & pointed
teeth ~~fig~~ other
part of the head is
dentate.



air sac in
trachea of
Melo^{to} sub.
with 1 inch
diameter



with 1 inch obj.

Acacia Beetle.



with 2 inch obj.

15/4/65
Weston



Beetles about
three the size of life.

Acarus of
Musk Rat
with 1 in obj.



acarus mag^d
with 1 inch diameter
from Beetle

Weston

6/4/65

See notes pg. 36

tail



balancers

head of a Diptera about $\frac{1}{8}$ long.



Anal canal
exserted.



Head very dark & no eyes? apparently.
smaller intestine &c. behind the head
Larger intestine filled with seeds
or spores of algae. Large trachea on each side of the intestine
terminating at the tail, with very thick bristles at the end of the body.
Trachea coloured red.

Mag. with
1 inch obj.

trachea





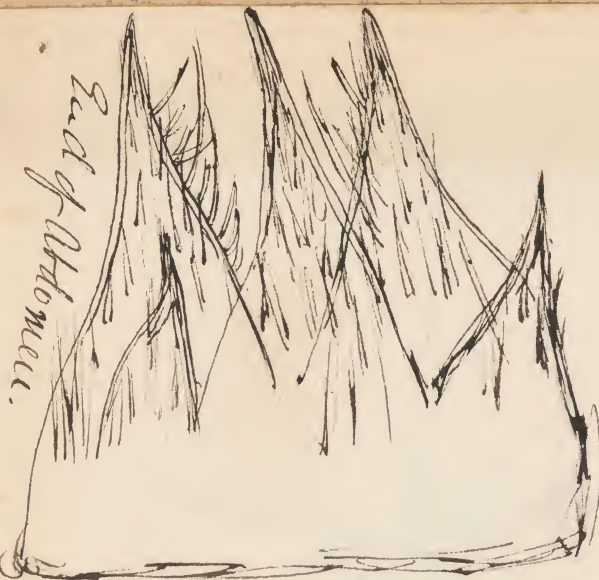
original of
fly in the same
no hairs on
abdomen



25/7/64

Ru. C. Belkame showed me
these in staws of barley the barley
is pierced & twisted at the 2nd or 3rd
joint. the insect is only about the $\frac{1}{16}$
of an inch or less. — Having 8 spiracles
on each side. The mouth appears to
be situated on the under side, with
two very sharp pointed teeth. no appear-
ance of legs or feet. Body black with
fatty matter except at the two ends
colour whitish. tail end simply
rounded. The barley came
from. Ginnerby. Coo.

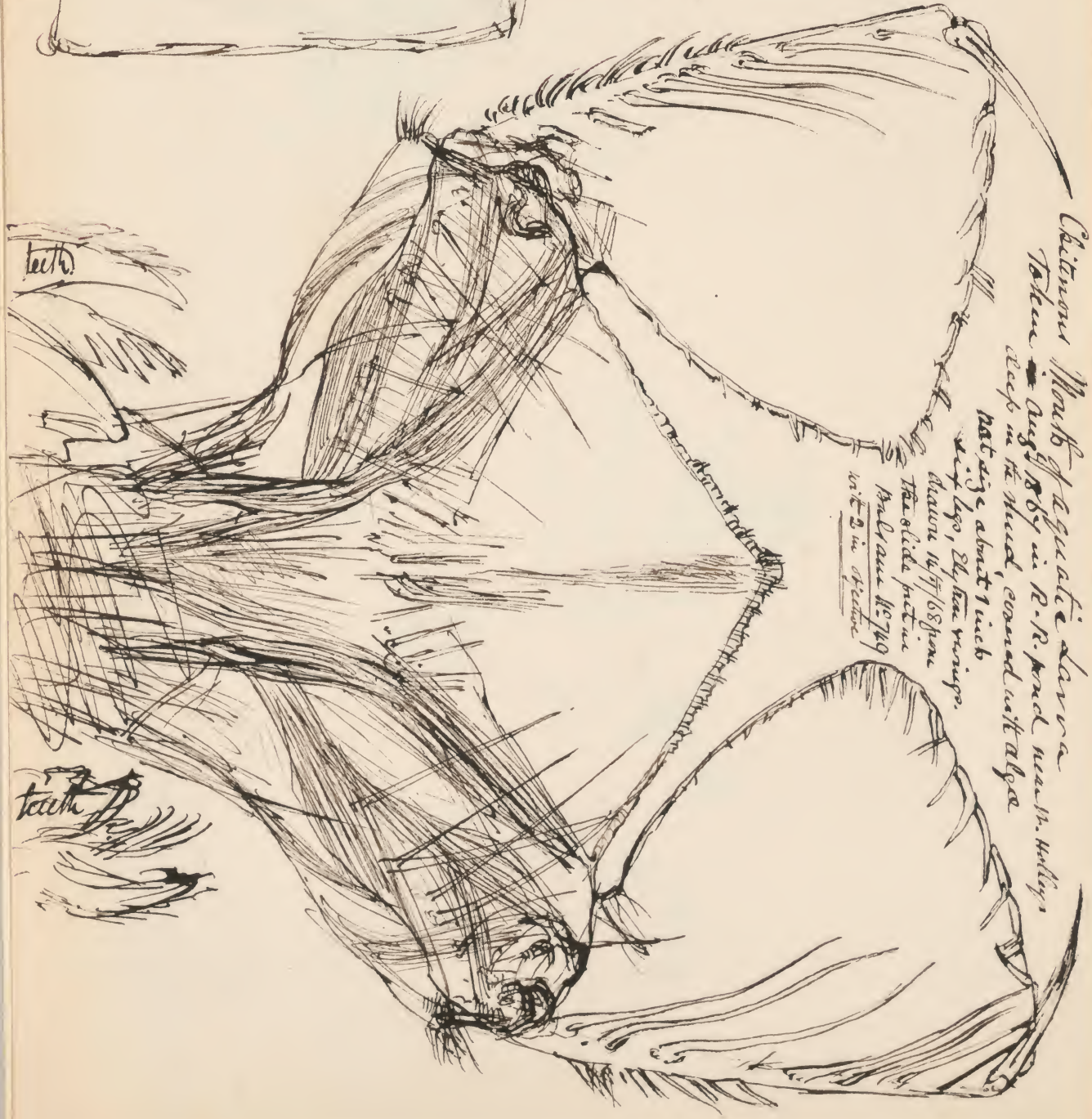




End of Oldomere.



2nd autumn.



Chitinous Mouth of aquatic larvae
 taken Aug 21 86 in R.R. pond near N. Valley
 deep in the mud, covered with algae
 not dry, about 1 inch
 with legs, 24 fine wings.
 Measured 14 1/2 x 1 1/2 x 1 1/2
 The slide put in
 Graham No 749
 with 2 in. of water

teeth

teeth

Weslow.
 (27/3/65.)
 See notes pg. 23.



White Pine



47 holes.

one millow twig.

Millow. with Larva



I nat.
 size.
 larva of
 millow.



Head.



head tooth, resembling
 a cross. mag. with 1 inch.



Magnified with 1/4 inch
 to show the mouth.

Weston,
Sep^r 26: 1864



Diileptoda lineata

Nov^r - 2: 1864



a very delicate fragile
silvery white or yellowish
moth, flying upwards slowly.
(The right wings correct)

Oct - 8, 1864



①
nat size.

Parasite of Rat

27/2/65.

Magnified with 2" obj.



Feb. 25: 1865

on the d. side

of a fence -

areta Isabella (or *Isabellia*)
Harris pp. 355. (Silver Moth)



A Head
B. Claws

C. Sting or piercer

} with 1/4"
Objective.

① nat size.

Spring tails

Podura ? or

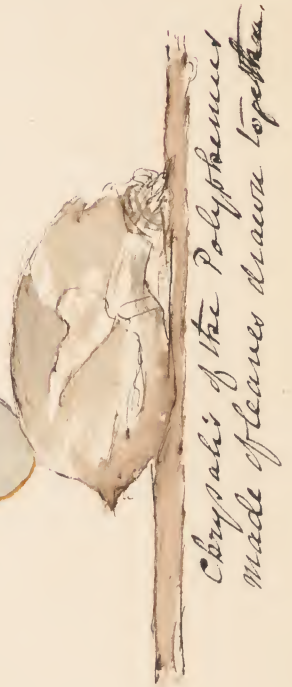
Snow fleas,

27/2/65. made their appear.
ance on the 18th Feb^r.

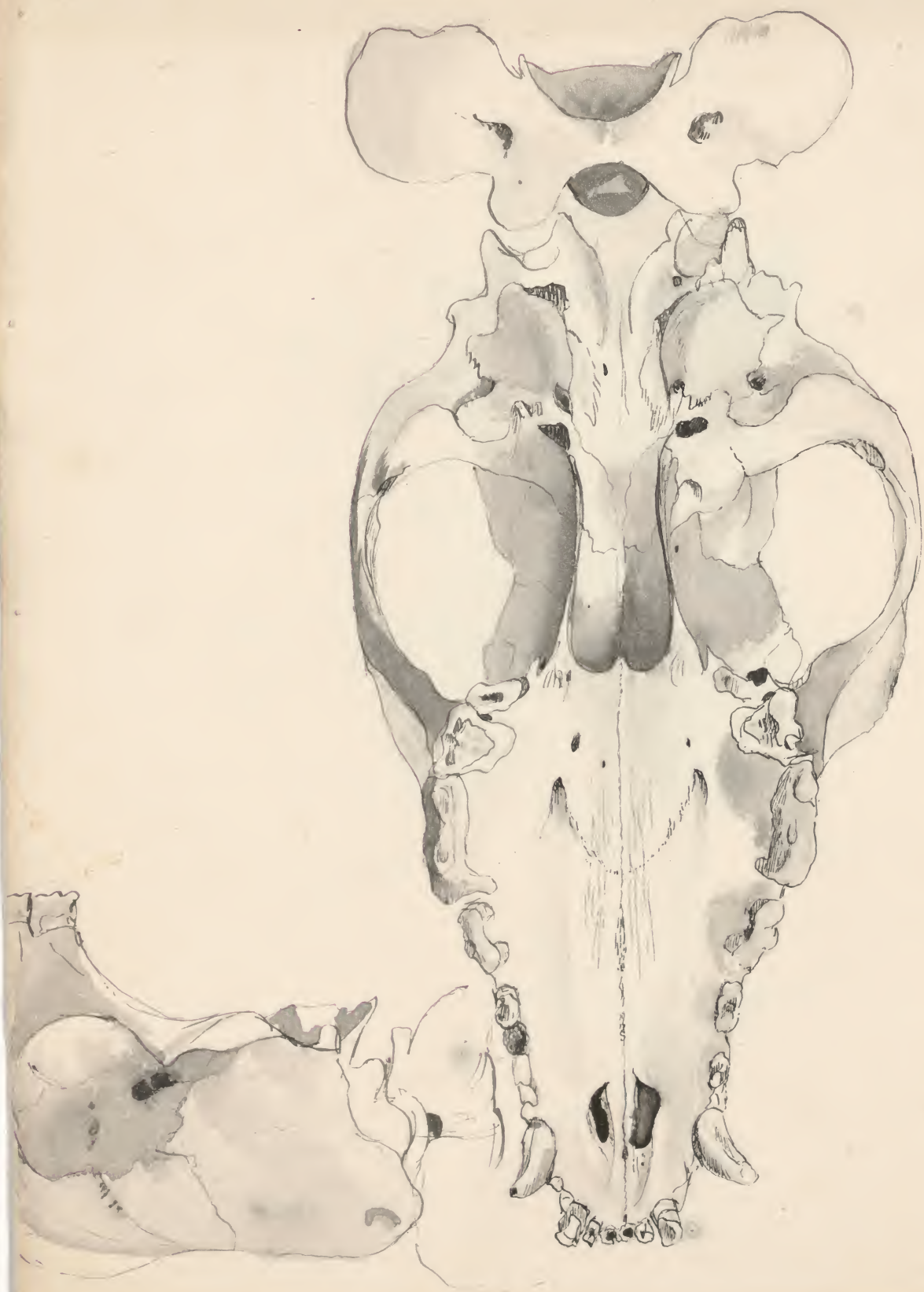


Magnified with 2" obj.

Wiston, May 3, 1865
on the *Phlox subulata*
in the dusk of the evening.

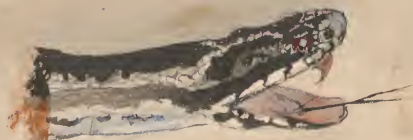


Chrysalis of the *Polyphemus*
made of leaves drawn together.





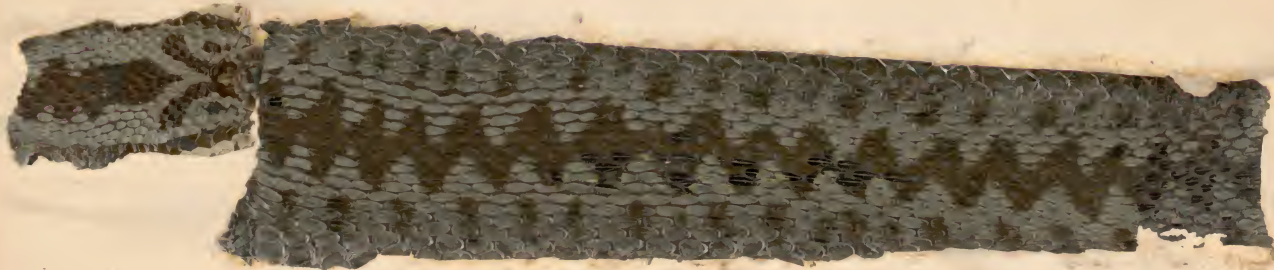




But the skin is
not yet so shown
the gland, duck
with fangs. -



Common Adder



1) one insect object.
2)

1)



2)



greatly magnified.



1) Nat. size

A kind of worm living inside
cabbage leaves July 4: 1883. It cuts la-
terally with the saw, feeds with the
mouth above it. Vis filled with chlorophyll
the light green indicates stomach & in-
testines. The remainder is muscle

Wash. Feb. 19: 1869

Wasps nest.
Cells are lined & painted with
white. The nest hollow, taken
from surface of wood,
found 75



Natural
size



about $\frac{1}{5}$
natural size
found hanging
in a tree, vent
in half. The entrance
is at the bottom.